



Substitute for form 1449/PTO and PTO/SB/08

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 4

**Complete if Known**

Application Number	10/666,231
Filing Date	18 September 2003
First Named Inventor	HAY, Stuart Gifford et al.
Art Unit	2821
Examiner Name	Not yet assigned Nguyen, H.
Attorney Docket No	10554/3

**US PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
HJN		US-4,298,877	11-03-1981	Sletten, C.J.	
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

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3/21/05

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**NON PATENT LITERATURE DOCUMENTS**

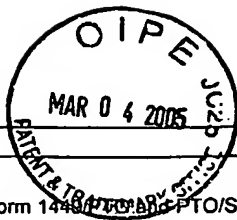
Examiner Initials *	Cite No <sup>1</sup>	Include name of Author (in CAPITALS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
HN		HAY, S.G., "Subreflector shaping to improve the multiple-beam performance of Cassegrain antennas", Electronics Letters, 1987, vol. 23, no. 15, pp. 789-791.	
		HAY, S.G., "Offset dual-reflector multiple-beam antennas using circularly symmetric main reflectors", Electronics Letters, 1987, vol. 23, no. 17, pp. 888-890.	
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		CLARRICOATS, P.J.B. and OLVER, A.D., "Corrugated horns for microwave antennas", Peter Peregrinus Ltd, London, 1984.	
		PONTOPPIDAN, K., "Technical description of GRASP7 and GRASPC", TICRA Engineering Consultants, S-359-03, 1993.	
		BIRD, T.S. and JAMES, G.L., "Design and Practice of Reflector Antennas and Feed Systems in the 1990s", Review of Radio Science 1996-1999, U.R.S.I., Oxford Science Publications, pp. 81-117.	
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		GRANET, C., and BIRD, T.S., "Optimization of corrugated horn radiation patterns via a spline-profile", ANTEM 2002, 9 <sup>th</sup> International Symposium on Antenna Technology and Applied Electromagnetics, Montreal, Canada, 2002, pp 307-310.	
		HAY, S.G., "Program DRASYS", Esoft, CSIRO Division of Radiophysics, 1992, Australia.	
		GRANET, C., JAMES, G.L. and PEZZANI, J., "A new dual-reflector feed system for the Nancay radiotelescope", IEEE Transactions on Antennas and Propagation, 1997, vol. 45, pp.1366-1373.	
HN		WOOD, P.J., "Reflector antenna analysis and design", Peter Peregrinus Ltd, London, 1980, pp. 86-93.	

Examiner Signature		Date Considered	3/21/05
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HN		CLARRICOATS, P.J.B. and POULTON, G.T., "High efficiency microwave reflector antennas - A review", Proceedings of the IEEE, 1977, vol. 65, pp. 1470-1504.	
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		JAMES, G.L., "Geometrical theory of diffraction for electromagnetic waves", Peter Peregrinus Ltd, London, 1986.	
		WEATHERBURN, C.E., "Differential geometry of three dimensions", Cambridge University Press, 1961.	
		RAHMAT-SAMII Y ET AL: "Modern antenna design concepts for satellite and personal communications". AEROSPACE APPLICATIONS CONFERENCE, 1994. PROCEEDINGS., 1994 IEEE, VAIL, CO, USA 5-12 FEB. 1994, NEW YORK, NY, USA, IEEE, 5 February 1994 (1994-02-05), pages 343-353, XP010120969, ISBN: 0-7803-1831-5 * page 343 - page 345 *	
		"Manual for POS: Physical optics single reflector shaping program". February 1991 (1991-02), TICRA ENGINEERING CONSULTANTS, COPENHAGEN, DENMARK, XP002274567, * paragraphs [4.1.4], [4.1.5] *	
		N.C. ALBERTSEN, K. PONTOPPIDAN, S.B. SØRENSEN: "Shaping of dual reflector antennas for improvement of scan performance". AP-S INTERNATIONAL SYMPOSIUM ON ANTENNAS AND PROPAGATION, vol. 1, 17 June 1985 (1985-06-17), - pages 357-360, XP002274566, VANCOUVER, BC, CANADA. * the whole document *	
HN		AOKI K ET AL: "Design method for offset shaped dual-reflector antenna with an elliptical aperture of low cross-polarisation characteristics". IEE PROCEEDINGS: MICROWAVES, ANTENNAS AND PROPAGATION, IEE, STEVENAGE, HERTS, GB, vol. 146, no. 1, 9 February 1999 (1999-02-09), pages 60-64, XP006013532. ISSN: 1350-2417. section 3; * figure 3 *.	

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